

# Motorboat Mechanics and Service Technicians Labor Market Analysis: San Diego County

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January 2018

## Summary

The following list summarizes findings from the labor market analysis below for *Motorboat Mechanics and Service Technicians*:

- Between 2016 and 2021, *Motorboat Mechanics and Service Technicians* are projected to increase by three jobs (or two percent) in San Diego County.
- Employers in San Diego County will need to hire 19 workers annually to fill new jobs and to backfill jobs due to attrition such as retirement or turnover.
- Between 2010 and 2017, there was an average of five online job postings per year for *Motorboat Mechanics and Service Technicians* in San Diego County.
- *Motorboat Mechanics and Service Technicians* earn median hourly earnings of \$20.27, more than the self-sufficiency wage (\$13.09 per hour) for a single adult in San Diego County.
- According to the California Community Colleges Chancellor's Office Management Information System (MIS) Data Mart, no colleges supply the region, with an annual average of zero awards for this occupation.
- Comparing the labor market demand against labor supply, there is a supply gap for this occupation in San Diego County, with 19 annual openings and zero awards. Comparatively, there are 188 annual openings in California and 17 awards.
- Between January 1, 2015 and December 31, 2017, the top five employers in San Diego County for this occupation were Ukpeaguik Inupiat Corporation, Hornblower Cruises and Events, Ameer Bay LLC, Starboard Engine and Oceanside Marine Center Inc.
- The typical on-the-job training for this profession is long-term. The typical entry-level education is a high school diploma or equivalent.

## Introduction

This report provides labor market information in San Diego County for the following occupational code in the Standard Occupational Classification (SOC)<sup>1</sup> system:

**Motorboat Mechanics and Service Technicians (SOC 49-3051):** Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat engines. Excludes "Bus and Truck Mechanics and Diesel Engine Specialists" (49-3031). Sample reported job titles include:

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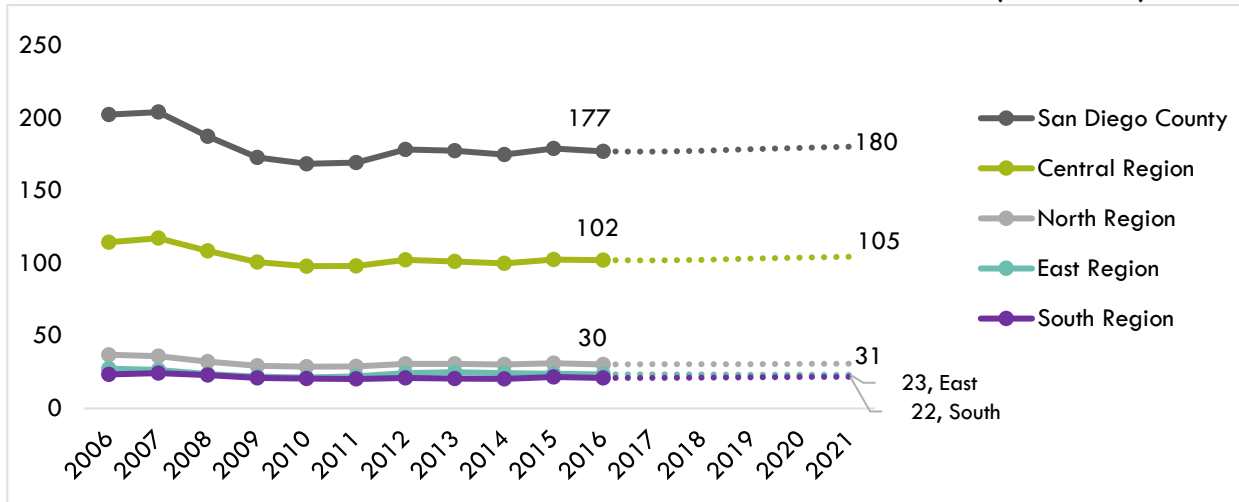
<sup>1</sup> The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating or disseminating data. [bls.gov/soc](http://bls.gov/soc).

- Outboard Motor Mechanic
- Boat Motor Mechanic
- Outboard Technician
- Marine Technician
- Marine Mechanic
- Marine Propulsion Technician
- Boat Mechanic
- Service Writer
- Service Technician
- Mechanic

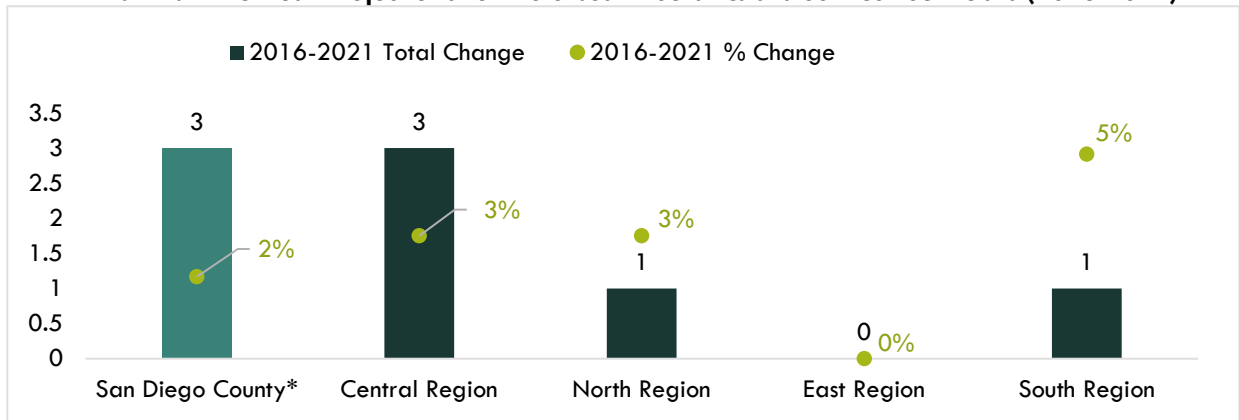
## Projected Occupational Demand

Between 2016 and 2021, *Motorboat Mechanics and Service Technicians* are projected to increase by **three** jobs (or **two** percent) in San Diego County (Exhibit 1a and Exhibit 1b).<sup>2</sup>

**Exhibit 1a: Number of Jobs for Motorboat Mechanics and Service Technicians (2006-2021)<sup>3</sup>**



**Exhibit 1b: Five-Year Projections for Motorboat Mechanics and Service Technicians (2016-2021)<sup>4</sup>**



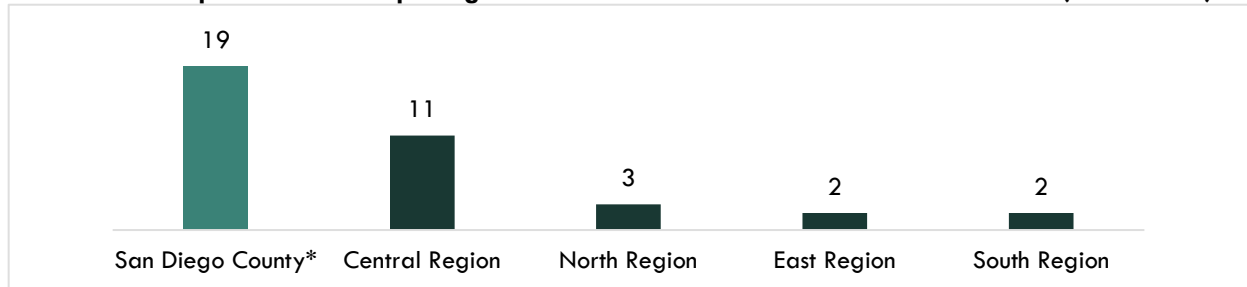
<sup>2</sup> South, East, Central and North Regions' zip codes in this report are defined by the local Workforce Development Board, the San Diego Workforce Partnership.

<sup>3</sup> Economic Modeling Specialists, Int'l. (EMSI). San Diego County (6073). 2017.03 Class of Worker. QCEW + Non-QCEW+ Self-Employed. 2006-2021.

<sup>4</sup> EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

Employers in San Diego County will need to hire 19 workers annually to fill new jobs and backfill jobs due to attrition such as retirement or turnover (Exhibit 2). The most demand will be in the Central Region.

**Exhibit 2: Projected Annual Openings for Motorboat Mechanics and Service Technicians (2016-2021)<sup>5</sup>**

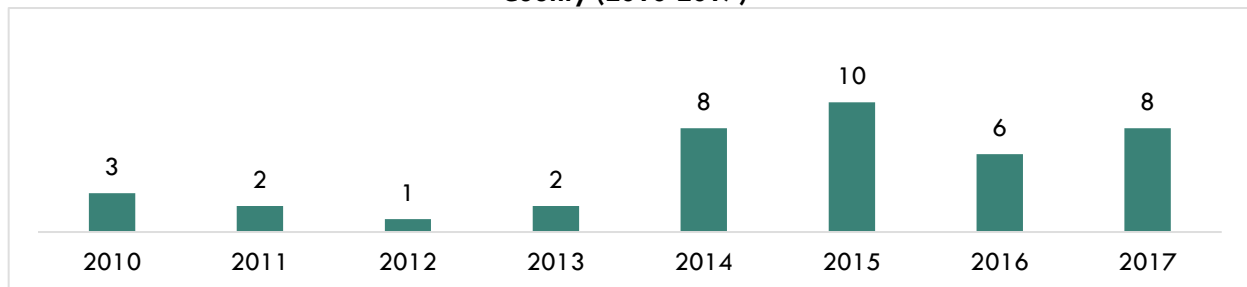


\*Total annual openings for the subregions in San Diego County may not add up exactly due to rounding.

## Online Job Postings

Between 2010 and 2017, there was an average of five online job postings per year for *Motorboat Mechanics and Service Technicians* in San Diego County (Exhibit 3).

**Exhibit 3: Number of Online Job Postings for Motorboat Mechanics and Service Technicians in San Diego County (2010-2017)<sup>6</sup>**



## Earnings

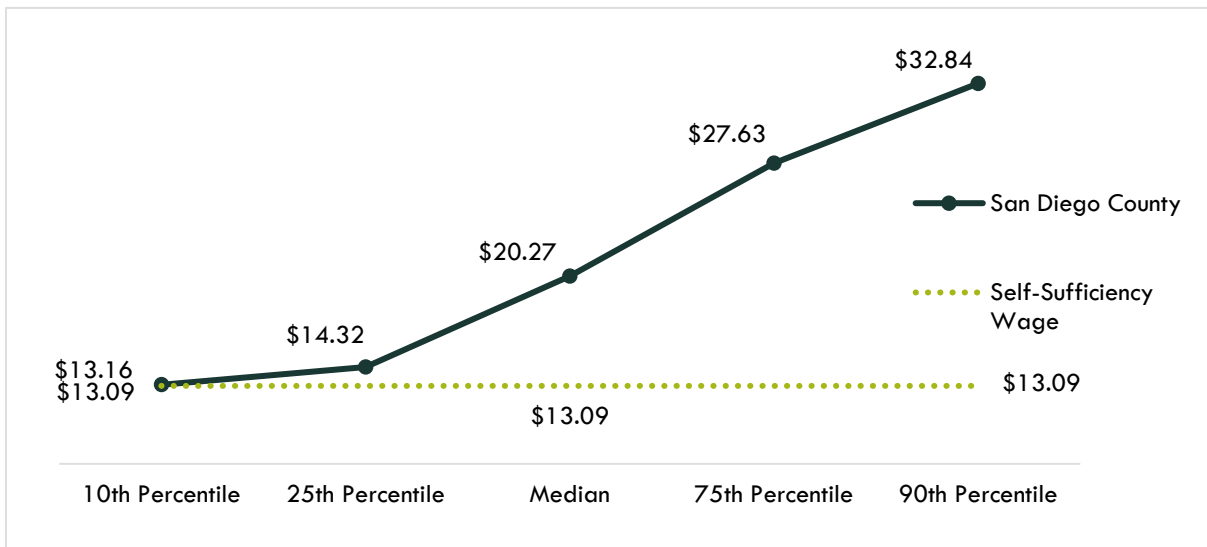
*Motorboat Mechanics and Service Technicians* earn median hourly earnings of \$20.27, more than the self-sufficiency wage (\$13.09 per hour)<sup>7</sup> for a single adult in San Diego County (Exhibit 4).

<sup>5</sup> EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

<sup>6</sup> Labor Insight Jobs. Burning Glass Technologies. San Diego, CA. Full years 2010-2017.

<sup>7</sup> The self-sufficiency wage in San Diego for one adult is \$13.09 (insightcced.org/tools-metrics/self-sufficiency-standard-tool-for-california).

**Exhibit 4: Hourly Earnings for Motorboat Mechanics and Service Technicians in San Diego County<sup>8</sup>**



## Educational Supply

Educational supply for an occupation can be estimated by analyzing the number of related program completers/graduates/awards in San Diego County. To determine what programs are available, Exhibit 5 lists the Taxonomy of Programs (TOP) code(s) related to the SOC code analyzed.

**Exhibit 5: Related TOP Codes in San Diego County**

**SOC 49-3051: Motorboat Mechanics and Service Technicians**

N/A

According to the California Community Colleges Chancellor's Office Management Information System (MIS) Data Mart, no colleges supply the region with awards for this occupation (Exhibit 6).

Exhibit 6 shows the annual average regional community college awards (associate degrees and certificates) conferred during the three academic years between 2013 and 2016 as well as other awards granted outside the California Community Colleges from 2012 to 2015 with the relevant TOP code.

**Please note:** An award is not equivalent to a single person in search of a job opening because a student may earn more than one award such as an associate degree in addition to a certificate.

<sup>8</sup> EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

**Exhibit 6: Number of Awards (Certificates and Degrees) Conferred by Postsecondary Institutions by Occupation (Program Year 2012-13 through PY2015-16 Average)**

TOP06	TOP06 Title	3-Yr Annual Average Supply (PY13-14 to PY15-16)	3-Yr Annual Average CC Awards (PY13-14 to PY15-16)	Other Educational Institutions 3-Yr Annual Average Awards (PY12-13 to PY14-15)
094830	Motorcycle, Outboard and Small Engine Repair	0	0	0
095900	Marine Technology	0	0	0

\*Total number of awards may not add up exactly due to rounding.

### Demand vs. Supply

Comparing the labor demand (annual openings) with labor supply<sup>9</sup> from the region's community colleges, there is a **supply gap** for this occupation in San Diego County, with **19** annual openings and zero awards. Comparatively, there are **188** annual openings in California and **17** completions.<sup>10</sup>

**Exhibit 7: Labor Demand (Annual Openings) Compared to Labor Supply (Average Annual Awards)**

Community Colleges and Other Postsecondary Educational Institutions	Demand (Annual Openings)	Supply (Total Annual Average Supply)	Supply Gap or <b>Oversupply</b>
San Diego County	19	0	<b>19</b>
California	188	17	<b>171</b>

**Please note:** This is a basic analysis of supply and demand of labor for these occupations. This data should be used to discuss the potential gaps or oversupply of workers for these occupations; however, it should not be the only basis for determining whether or not a program should be developed. Additionally, the data does not include workers who are currently in the labor force who could fill these positions or workers who are not captured by publicly available data.

### Student Outcomes

Because there are no programs in the region that train workers for *Motorboat Mechanics and Service Technicians*, student outcome data is not available in the CTE LaunchBoard.<sup>11</sup>

<sup>9</sup> Labor supply can be found from two different sources: EMSI or the California Community Colleges Chancellor's Office MIS Data Mart. EMSI uses CIP codes while MIS uses TOP codes. Different coding systems result in differences in the supply numbers.

<sup>10</sup> EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

<sup>11</sup> calpassplus.org/LaunchBoard/SWP.aspx.

## Top Employers and Work Locations

Between January 1, 2015 and December 31, 2017, the top five employers in San Diego County for this occupation were [Ukpeagvik Inupiat Corporation](#), [Hornblower Cruises and Events](#), [Amee Bay LLC](#), [Starboard Engine](#) and [Oceanside Marine Center, Inc.](#) (Exhibit 9).

### Exhibit 9: Top Industries and Employers in San Diego County for Motorboat Mechanics and Service Technicians

Top Employers	Top Industries
<ul style="list-style-type: none"> <li>• Ukpeagvik Inupiat Corporation</li> <li>• Hornblower Cruises and Events</li> <li>• Amee Bay LLC</li> <li>• Starboard Engine</li> <li>• Oceanside Marine Center Inc</li> <li>• City of San Diego</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive Parts, Accessories, and Tire Stores</li> <li>• Executive, Legislative, and Other General Government Support</li> <li>• Architectural, Engineering, and Related Services</li> </ul>

## Skills, Education and Certifications

Exhibit 10 indicates the educational attainment for the occupation found currently in the national labor force. The typical on-the-job training for this occupation is [long-term on-the-job training](#). The typical entry-level education is a [high school diploma or equivalent](#).<sup>12</sup>

**Exhibit 10: National Educational Attainment of Motorboat Mechanics and Service Technicians**

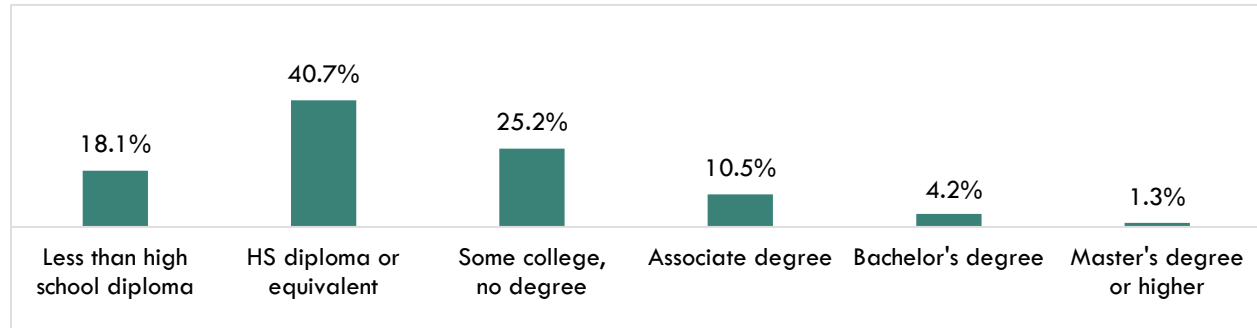


Exhibit 11 lists the top specialized, soft and software skills that appeared in online job postings for between January 1, 2015 and December 31, 2017.

<sup>12</sup> EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

**Exhibit 11: Top Skills for *Motorboat Mechanics and Service Technicians* in San Diego County<sup>13</sup>**

Specialized Skills	Soft Skills	Software Skills
<ul style="list-style-type: none"><li>• Repair</li><li>• Power Tools</li><li>• Hand Tools</li><li>• Hydraulics</li><li>• Electrical Systems</li><li>• Plumbing</li></ul>	<ul style="list-style-type: none"><li>• Troubleshooting</li><li>• Preventive Maintenance</li><li>• Mathematics</li><li>• English</li><li>• Physical Demand</li></ul>	<ul style="list-style-type: none"><li>• Microsoft Word</li><li>• Microsoft Excel</li><li>• Microsoft Vista</li></ul>

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<sup>13</sup> Labor Insight Jobs. Burning Glass Technologies. San Diego, CA. Full years 2015-2017.